

CLAIMS

1. SYSTEM OF INTERCONNECTING A REMOTE SERVER WITH A SHORT MESSAGE SERVICE CENTRE (SMSC) THROUGH INTERNET, which allows short messages (SMS) to be sent between a remote server (1) and a mobile telephone user (7), which is in communication with a short message service centre (5) (SMSC) on a GSM network (10), characterized in that remote server (1) communicates with the SMSC (5) via an Internet hypertext transfer protocol (http), for which both the SMSC (5) and remote server (1) have means (2, 3, 8, 9) of bi-directional transmission/reception of short messages via the protocol (http).

2. SYSTEM OF INTERCONNECTING A REMOTE SERVER WITH A SHORT MESSAGE SERVICE CENTRE (SMSC) THROUGH INTERNET, according to claim 1, characterized in that the transmission/reception is defined by a client module (2, 8) and by a server module (3, 9), client modules (2, 8) comprising an SMS-http message composition block (59) which composes short messages adapted for their transmission via the Internet http protocol, also having a block for transmission of SMS-http messages (64) to server module (3, 9) to which it is desired to send them; and server modules (3, 8) comprising an SMS-http message reception block (29) and a data analysis block (30) which has access to a database (32) to verify the data of originator, addressee of the message and access code, and as a function of this verification it generates a return code (23) signaling data correct or data errored.

3. SYSTEM OF INTERCONNECTING A REMOTE SERVER WITH A SHORT MESSAGE SERVICE CENTRE (SMSC) THROUGH INTERNET, according to claim 2, characterized in that server module (9) of the SMSC (5) comprises a composition block of SMS messages proper (33) which composes said SMS message from the SMS-http message.

4. SYSTEM OF INTERCONNECTING A REMOTE SERVER WITH A SHORT MESSAGE SERVICE CENTRE (SMSC) THROUGH INTERNET, according to claim 1, characterized in that client modules (2, 8) comprise means (35) of calculating HASH security functions (63); and in that the server modules

(3, 9) comprise means of confirming the HASH security functions (35); in order to generate a return code (27) which enables or denies a connection as a function of the HASH sent and obtained.

5. SYSTEM OF INTERCONNECTING A REMOTE SERVER WITH A SHORT MESSAGE SERVICE CENTRE (SMSC) THROUGH INTERNET, according to claim 1, characterized in that client modules (2, 8) have encoding means (62) and server modules (3, 9) have decoding means (34), to allow more characters and symbols to be sent/received.

6. SYSTEM OF INTERCONNECTING A REMOTE SERVER WITH A SHORT MESSAGE SERVICE CENTRE (SMSC) THROUGH INTERNET, according to claim 5, characterized in that the encoding (63) and decoding (35) means, perform base64 encoding/decoding.

7. SYSTEM OF INTERCONNECTING A REMOTE SERVER WITH A SHORT MESSAGE SERVICE CENTRE (SMSC) THROUGH INTERNET, according to claim 3, characterized in that SMS composition block (33) of the server module of the SMSC (5) has means of translating from the SMS-http message to GSM characters, prior to composing the SMS message, to allow this to be sent via the GSM network.

8. SYSTEM OF INTERCONNECTING A REMOTE SERVER WITH A SHORT MESSAGE SERVICE CENTRE (SMSC) THROUGH INTERNET, according to claim 1, characterized in that client modules (2, 8) have means of segmentation of the information in order to send longer messages.

9. SYSTEM OF INTERCONNECTING A REMOTE SERVER WITH A SHORT MESSAGE SERVICE CENTRE (SMSC) THROUGH INTERNET, according to claim 8, characterized in that the means of segmentation of client module (2, 8) are foreseen in message composition block (59).

10. SYSTEM OF INTERCONNECTING A REMOTE SERVER WITH A SHORT MESSAGE SERVICE CENTRE (SMSC) THROUGH INTERNET, according to claim 1, characterized in that server modules (3, 9) have means of segmentation of the information in order to send longer messages.

11. SYSTEM OF INTERCONNECTING A REMOTE SERVER WITH A SHORT MESSAGE SERVICE CENTRE (SMSC) THROUGH INTERNET, according to claim 10, characterized in that the means of segmentation of server module (3, 9) are foreseen in message composition block SMS (33).

12. SYSTEM OF INTERCONNECTING A REMOTE SERVER WITH A SHORT MESSAGE SERVICE CENTRE (SMSC) THROUGH INTERNET, according to claim 1, characterized in that mandatory and optional parameters of the short messages are sent.

13. SYSTEM OF INTERCONNECTING A REMOTE SERVER WITH A SHORT MESSAGE SERVICE CENTRE (SMSC) THROUGH INTERNET, according to claim 12, characterized in that short message composition block (33) of server module (3, 9) has means for recovery of the mandatory and optional parameters, and in the event that the optional parameters are omitted it inserts default values.

14. SYSTEM OF INTERCONNECTING A REMOTE SERVER WITH A SHORT MESSAGE SERVICE CENTRE (SMSC) THROUGH INTERNET, according to claim 1, characterized in that client modules (2, 8) have means of generating acknowledgement of receipt, which are sent through message transmission block (64) to the corresponding server module (3, 9) and in that client modules (2, 8) also have means of transmitting the result of the acknowledgement of receipt to server module (3, 9) of client module (2, 8) that generated the acknowledgement of receipt in the first instance.

15. SYSTEM OF INTERCONNECTING A REMOTE SERVER WITH A SHORT MESSAGE SERVICE CENTRE (SMSC) THROUGH INTERNET, according to claims 3, 4 or 14, characterized in that server modules (3, 9) have a return code transmission block (37) to indicate that the transmission has been

correct or has been errored; and in this last case to identify the type of error produced; and in that client modules (2, 8) have a return code reception block (58).

16. SYSTEM OF INTERCONNECTING A REMOTE SERVER WITH A SHORT MESSAGE SERVICE CENTRE (SMSC) THROUGH INTERNET, according to claim 1, characterized in that means of reattempting transmission of failed messages a certain number of times have been foreseen and of reattempting transmission of acknowledgement of receipt messages a certain number of times.

17. SYSTEM OF INTERCONNECTING A REMOTE SERVER WITH A SHORT MESSAGE SERVICE CENTRE (SMEC) THROUGH INTERNET, according to claim 1, characterized in that the SMS is sent from remote server (1) to the mobile telephone user (7) and/or from the mobile telephone user (7) to remote server (1).

18. SYSTEM OF INTERCONNECTING A REMOTE SERVER WITH A SHORT MESSAGE SERVICE CENTRE (SMSC) THROUGH INTERNET, according to claim 1, characterized in that client module (8) and server module (9) of the operator of the mobile telephony network (6) have means of simultaneous communication with a plurality of remote servers (1), to furnish simultaneous connection to a mobile telephone user (7) with a plurality of remote servers (1).